

Patent Claims

1. A fireproof glazing unit consisting of at least two transparent glass substrates (10; 20) arranged at a certain distance from each other, whereby there is at least one transparent fireproof layer (30) between the glass panes, characterized in that there is a transparent TiO₂ layer (40) that reduces the incidence of UV radiation onto the fireproof layer (30) on at least one side of said layer.
2. The fireproof glazing unit according to Claim 1, characterized in that the TiO₂ layer is located on the outer surface (11) of the glass pane (10) facing outwards.
3. The fireproof glazing unit according to one or both of Claims 1 and 2, characterized in that the TiO₂ layer is located between an inner surface (12) of a glass pane (10) facing outwards and the fireproof layer (30).
4. The fireproof glazing unit according to one or more of the preceding claims, characterized in that the fireproof glazing unit comprises other functional layers in addition to the fireproof layer (30) and the transparent TiO₂ layer (40).
5. The fireproof glazing unit according to one or more of the preceding claims, characterized in that the thickness of the TiO₂ layer (40) lies in the order of magnitude from 10 nm to 75 nm.

6. The fireproof glazing unit according to one or more of the preceding claims, characterized in that the TiO_2 layer (40) is applied by means of magnetron sputtering, sol-gel methods or CVD methods,
7. The fireproof glazing unit according to one or more of the preceding claims, characterized in that the fireproof layer displays an absorption of at least 70% within the wavelength spectrum from 800 nm to 1400 nm.
8. The fireproof glazing unit according to one or more of the preceding claims, characterized in that the TiO_2 layer displays an absorption between 3% and 15% within the wavelength spectrum from 320 nm to 480 nm.
9. The fireproof glazing unit according to one or more of the preceding claims, characterized in that the TiO_2 layer displays a reflection of at least 40% within the wavelength spectrum from 320 nm to 480 nm.
10. The fireproof glazing unit according to Claim 9, characterized in that the TiO_2 layer displays a reflection of 40% to 60% within the wavelength spectrum from 320 nm to 480 nm.